

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830540

Luminaire Tested: **OHBL-48SE-MCL-UNV-L835-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-MCL-UNV-L835-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

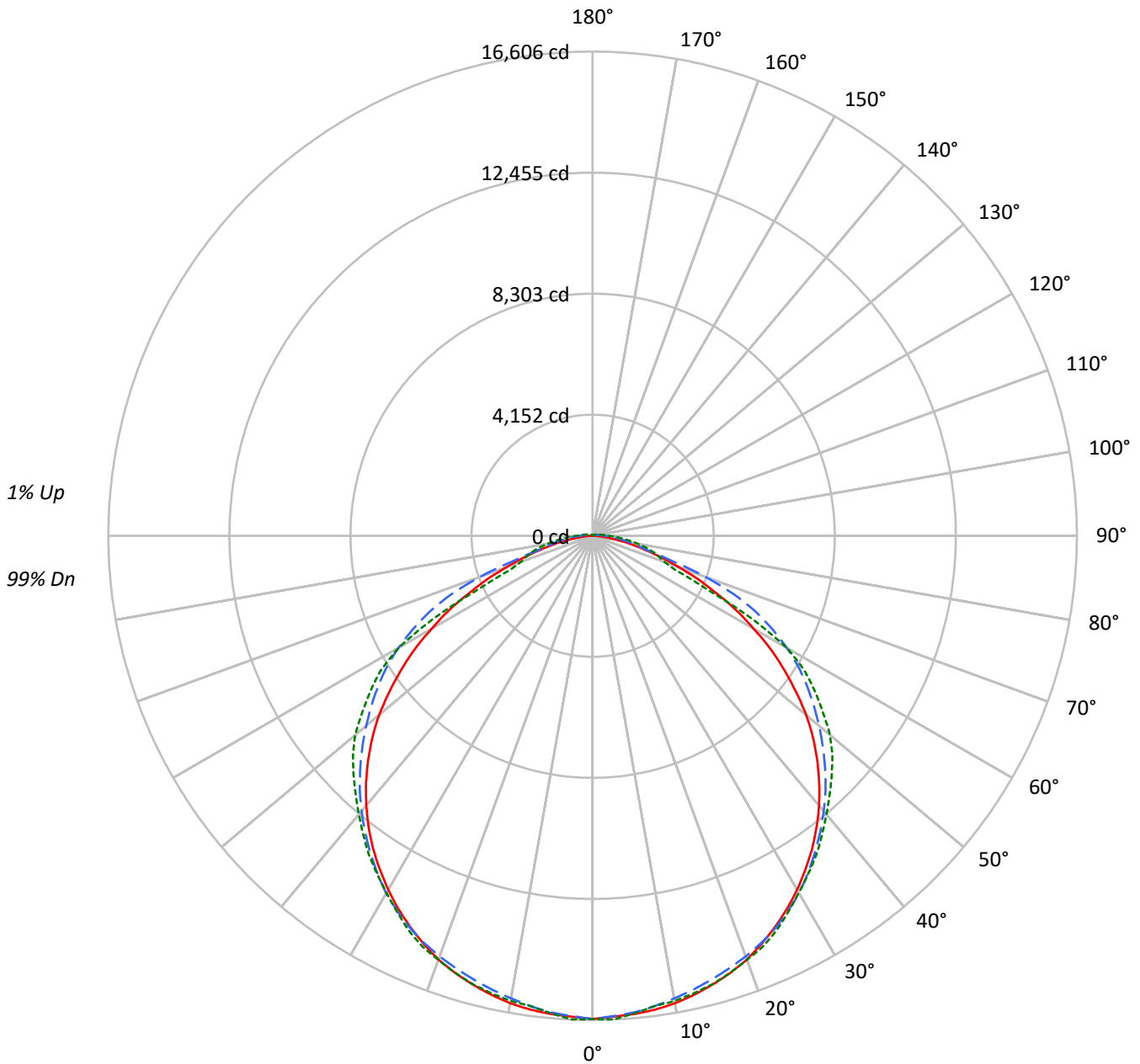
Lumens per Lamp: N/A
Luminaire Lumens: 46842.0 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 288.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28306	28306	28306
5°	28121	27882	27936
10°	28018	27448	27607
15°	27840	27119	27405
20°	27662	26908	27144
25°	27329	26694	26885
30°	26966	26365	26357
35°	26531	25851	26055
40°	25967	25319	25651
45°	25185	24704	25457
50°	24125	24006	25226
55°	22442	23316	24251
60°	20237	22313	22382
65°	17360	20473	14154
70°	13982	15950	10232
75°	10483	9440	10341
80°	7297	7813	9806
85°	4153	7094	9071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1562.7	3.3
10°-20°	4481.0	9.6
20°-30°	6843.8	14.6
30°-40°	8303.9	17.7
40°-50°	8703.3	18.6
50°-60°	7886.5	16.8
60°-70°	5287.6	11.3
70°-80°	2374.4	5.1
80°-90°	861.6	1.8
90°-100°	259.4	0.6
100°-110°	122.4	0.3
110°-120°	61.3	0.1
120°-130°	33.8	0.1
130°-140°	23.3	0.0
140°-150°	15.7	0.0
150°-160°	11.6	0.0
160°-170°	7.5	0.0
170°-180°	2.4	0.0
0°-30°	12887.4	27.5
0°-40°	21191.4	45.2
0°-60°	37781.2	80.7
0°-90°	46304.7	98.9
90°-120°	443.1	0.9
90°-150°	515.8	1.1
90°-180°	537.0	1.1
0°-180°	46842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16573	16573	16573	16573	16573	
5°	16465	16522	16407	16458	16436	###
15°	15930	15868	15756	15895	15914	4498
25°	14800	14735	14838	14974	14931	6822
35°	13117	13148	13283	13424	13371	8199
45°	10886	11064	11270	11557	11593	8386
55°	8011	8397	8969	9329	9307	7151
65°	4702	5437	6173	5210	4253	4685
75°	1850	2684	1974	2020	2152	2022
85°	319	611	784	946	992	389
90°	2	204	405	508	532	19
95°	2	127	278	338	348	3
105°	10	55	137	165	172	11
115°	19	29	70	89	94	18
125°	17	19	43	50	53	17
135°	22	24	26	38	41	17
145°	22	24	24	26	29	14
155°	24	26	26	26	24	11
165°	26	26	26	26	26	7
175°	26	26	24	22	22	3
180°	24	24	24	24	24	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16572.7	16572.7	16572.7	16572.7	16572.7
2.5°	16505.6	16575.1	16488.9	16582.3	16606.3
5°	16464.9	16522.4	16407.4	16457.7	16436.2
7.5°	16390.6	16409.8	16273.2	16313.9	16270.8
10°	16280.4	16270.8	16110.3	16189.3	16198.9
12.5°	16117.4	16088.7	15944.9	16064.7	16067.1
15°	15930.5	15868.2	15755.6	15894.6	15913.8
17.5°	15714.9	15633.4	15559.1	15738.8	15710.1
20°	15463.3	15367.4	15353.0	15549.5	15477.6
22.5°	15151.7	15077.5	15111.0	15297.9	15252.4
25°	14799.5	14734.8	14837.8	14974.4	14931.3
27.5°	14428.1	14389.7	14507.1	14612.6	14528.7
30°	14020.7	13999.1	14154.9	14241.1	14135.7
32.5°	13577.4	13584.6	13733.1	13850.6	13752.3
35°	13117.3	13148.4	13282.6	13424.0	13371.3
37.5°	12611.7	12681.2	12815.4	12975.9	12920.8
40°	12077.3	12177.9	12326.5	12520.6	12470.3
42.5°	11499.8	11626.8	11818.5	12034.2	12029.4
45°	10886.3	11063.7	11269.8	11557.3	11593.2
47.5°	10248.9	10447.8	10709.0	11092.4	11147.5
50°	9556.4	9805.6	10131.5	10591.6	10625.1
52.5°	8784.8	9125.1	9556.4	9997.3	9956.6
55°	8010.8	8396.6	8969.3	9328.8	9307.2
57.5°	7239.2	7672.9	8367.8	8624.2	8621.9
60°	6376.5	6925.3	7684.9	7879.0	7687.3
62.5°	5578.6	6168.0	6956.4	6815.0	6158.5
65°	4701.5	5437.2	6172.8	5209.5	4253.4
67.5°	3922.7	4689.5	5243.1	3568.1	3055.3
70°	3139.1	3985.0	4088.1	2647.9	2612.0
72.5°	2444.2	3345.2	2820.4	2266.9	2381.9
75°	1849.9	2683.8	1974.5	2020.1	2151.9
77.5°	1349.1	2060.8	1536.0	1770.9	1878.7
80°	927.4	1459.3	1253.3	1488.1	1562.4
82.5°	582.3	963.3	1004.0	1198.1	1274.8
85°	318.7	611.1	783.6	946.5	992.1
87.5°	131.8	369.0	599.1	730.9	769.2
90°	2.4	203.7	405.0	508.0	532.0
92.5°	2.4	155.8	330.7	409.8	426.5
95°	2.4	127.0	278.0	337.9	347.5
97.5°	4.8	100.6	232.4	280.4	290.0
100°	7.2	83.9	194.1	234.8	242.0
102.5°	9.6	67.1	162.9	196.5	203.7
105°	9.6	55.1	136.6	165.3	172.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.8	33.5	81.5	103.0	107.8
115°	19.2	28.8	69.5	88.7	93.5
117.5°	19.2	24.0	59.9	74.3	79.1
120°	19.2	21.6	52.7	64.7	67.1
122.5°	19.2	19.2	45.5	57.5	59.9
125°	16.8	19.2	43.1	50.3	52.7
127.5°	19.2	19.2	38.3	45.5	47.9
130°	19.2	21.6	33.5	43.1	43.1
132.5°	21.6	24.0	31.2	40.7	40.7
135°	21.6	24.0	26.4	38.3	40.7
137.5°	24.0	24.0	24.0	35.9	38.3
140°	24.0	24.0	21.6	31.2	33.5
142.5°	21.6	24.0	21.6	28.8	31.2
145°	21.6	24.0	24.0	26.4	28.8
147.5°	24.0	24.0	24.0	24.0	26.4
150°	24.0	24.0	24.0	24.0	24.0
152.5°	24.0	24.0	24.0	24.0	24.0
155°	24.0	26.4	26.4	26.4	24.0
157.5°	24.0	26.4	26.4	26.4	26.4
160°	24.0	26.4	26.4	26.4	26.4
162.5°	26.4	26.4	26.4	26.4	26.4
165°	26.4	26.4	26.4	26.4	26.4
167.5°	26.4	28.8	26.4	26.4	26.4
170°	26.4	26.4	26.4	24.0	24.0
172.5°	26.4	26.4	26.4	24.0	24.0
175°	26.4	26.4	24.0	21.6	21.6
177.5°	28.8	26.4	24.0	21.6	19.2
180°	24.0	24.0	24.0	24.0	24.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	12.0	45.5	117.4	141.4	146.2
110°	14.4	38.3	98.2	119.8	124.6



(END OF REPORT)